

OIL ANALYSIS REPORT

Sample Rating Trend



Area **KDAC** Machine Id **200253** Component

Diesel Engine Fluid TEST OIL GOLD 4 (40 LTR)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is suitable for further service.

Мау2023 Мау2023 Jud2023 Say2023 Ox2023 Jan2024 Jan2024 May2024 May2024 May2024						
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0888914	WC0888902	WC0888887
Sample Date		Client Info		28 Mar 2024	01 Mar 2024	16 Feb 2024
Machine Age	kms	Client Info		228427	213136	203682
Oil Age	kms	Client Info		43526	28235	18785
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>90	20	15	12
Chromium	ppm	ASTM D5185(m)	>20	1	1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	8	7	6
Lead	ppm	ASTM D5185(m)	>40	1	2	<1
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	1	5	5	5
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	59	58
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	950	976	961	948
Calcium	ppm	ASTM D5185(m)	980	1059	1070	1038
Phosphorus	ppm	ASTM D5185(m)	1100	976	1008	1001
Zinc	ppm	ASTM D5185(m)	1150	1188	1186	1159
Sulfur	ppm	ASTM D5185(m)	2600	2412	2709	2723
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	4	3
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	15	12	11
Fuel	%	ASTM D7593*	>3.0	0.7	0.8	▲ 1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>6	0.2	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.0	6.8	6.2
Nitration(Diff)	Abs/cm	ASTM E2412*		8.2	5.5	4.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	19.2	19.0
Sulfation(Diff)	Abs/cm	ASTM E2412*		3.7	2.6	1.7
:35:06) Rev: 1					Submitted By	: William Ridlev

Report Id: WFRBUR [WCAMIS] 02625526 (Generated: 04/03/2024 08:35:06) Rev: 1



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Accredited Unique Number : 5750645 Laboratory Test Package : MOB 2 (Additional Tests: FT-IR(Diff), FUELDILUTION, PercentFuel) To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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